

TOOELE RIVER BASIN

10172727 FAUST CREEK NEAR VERNON, UT

LOCATION.--Lat 40°09'38", long 112°25'49", in NE¹/₄SE¹/₄SW¹/₄ sec. 32, T. 7 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on left bank 30 ft west of State Highway 36, approximately 1 mi south of Faust, and 4.5 mi north of Vernon.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good Oct. 1 to June 8, poor, June 9 to Sep. 30, due to highly unstable control. Estimated days are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22 ft³/_s Mar. 10, 1993, gage height, 5.96 ft, maximum gage height, 6.08 ft, Nov. 2, 1992 (backwater from aquatic growth); minimum daily discharge, 0.4 ft³/_s July 15, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15.4 ft³/_s Oct. 7, gage height, 6.01 ft; minimum daily discharge, 0.55 ft³/_s several days in June and July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	1.3	1.6	2.1	2.1	2.0	2.3	.98	e.55	2.6	1.3
2	2.1	2.0	1.4	1.8	2.3	2.3	2.1	2.4	.98	e.60	1.6	1.3
3	2.5	2.1	1.3	2.8	1.9	2.2	2.2	2.2	.97	e.55	1.1	1.4
4	2.3	1.8	1.8	1.5	1.8	2.1	2.1	2.0	.97	e.55	1.1	1.3
5	1.9	2.4	1.4	1.4	1.8	2.2	2.2	1.9	.98	e.55	1.0	3.2
6	4.2	2.2	1.4	1.6	1.7	2.3	2.1	1.8	1.0	e.55	.89	3.5
7	5.0	2.0	1.4	1.2	1.7	2.2	2.1	1.6	1.0	e.55	1.3	3.4
8	2.8	1.9	1.5	1.3	1.7	2.2	2.1	1.6	.78	e.55	2.8	3.6
9	2.1	1.9	2.3	1.3	1.7	2.1	2.5	1.5	.96	e.55	3.4	4.3
10	2.1	1.9	2.5	1.4	1.7	2.1	2.4	1.5	.75	e.55	2.8	4.4
11	1.9	1.9	3.1	1.4	1.8	2.1	2.1	1.5	e.75	e.55	2.6	2.9
12	3.9	1.8	2.0	e1.2	1.7	2.0	2.1	1.4	e.75	e.85	1.2	3.6
13	4.9	1.8	1.6	e1.2	1.8	2.0	2.0	1.3	e.85	e.75	1.2	3.6
14	2.7	1.8	1.4	e1.2	1.9	2.0	2.0	1.3	e.99	e.60	1.4	3.3
15	2.5	1.8	1.3	e1.2	1.9	2.0	2.0	1.4	e.70	e.60	2.4	1.9
16	2.4	1.7	1.4	e1.2	1.9	2.0	2.0	1.3	e.60	e.60	2.6	1.5
17	2.3	1.7	1.2	e1.3	2.0	2.0	1.9	1.2	e.60	e.75	2.0	1.4
18	2.2	1.9	1.2	e1.3	2.1	1.8	1.9	1.2	e.70	e.95	1.3	1.4
19	2.3	1.6	1.2	e1.3	1.9	1.7	1.8	1.1	e.65	1.6	1.1	3.7
20	2.2	1.5	1.2	e1.3	2.0	1.6	1.8	1.1	e.60	1.0	1.8	2.5
21	2.2	1.5	1.2	1.4	1.9	1.4	1.9	1.1	e.55	e.85	1.9	1.7
22	2.1	2.1	1.2	1.5	1.9	1.3	2.1	1.1	e.55	1.4	2.4	1.5
23	2.1	1.7	1.2	1.6	1.9	1.3	2.1	1.0	e.55	2.5	3.9	1.4
24	2.3	1.5	1.3	1.6	1.9	1.2	2.2	1.2	e.55	1.4	2.2	1.3
25	2.4	1.5	1.3	1.7	1.9	1.2	2.0	1.2	e.60	2.0	1.5	1.3
26	2.3	1.5	1.5	2.1	2.0	1.2	1.8	1.2	e.55	2.2	1.8	1.6
27	2.2	1.4	1.5	2.2	2.1	1.2	1.8	1.1	e.55	1.0	1.6	1.3
28	2.2	1.4	1.5	2.0	2.0	1.0	1.9	1.0	e.55	.84	2.4	1.3
29	2.2	1.4	1.5	2.2	---	.98	1.9	1.1	e.55	.73	3.1	1.3
30	2.1	1.4	1.5	2.0	---	.98	1.9	1.0	e.55	1.4	3.3	1.3
31	2.5	---	1.6	2.0	---	1.5	---	1.0	---	2.4	1.8	---
TOTAL	78.9	53.3	47.2	48.8	53.0	54.26	61.0	43.6	22.11	30.52	62.09	67.5
MEAN	2.55	1.78	1.52	1.57	1.89	1.75	2.03	1.41	.74	.98	2.00	2.25
MAX	5.0	2.4	3.1	2.8	2.3	2.3	2.5	2.4	1.0	2.5	3.9	4.4
MIN	1.9	1.4	1.2	1.2	1.7	.98	1.8	1.0	.55	.55	.89	1.3
AC-FT	156	106	94	97	105	108	121	86	44	61	123	134

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997
MEAN	1.78	2.01	1.38	1.30	1.92	3.45
MAX	2.55	5.19	2.20	1.89	2.49	10.6
(WY)	1997	1995	1995	1995	1992	1993
MIN	.90	.80	.80	.93	.89	1.41
(WY)	1994	1994	1994	1992	1994	1995

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1992 - 1997
ANNUAL TOTAL	1160.71	622.28	
ANNUAL MEAN	3.17	1.70	
HIGHEST ANNUAL MEAN			2.37
LOWEST ANNUAL MEAN			1.22
HIGHEST DAILY MEAN	15	5.0	19
LOWEST DAILY MEAN	.94	.55	.08
ANNUAL SEVEN-DAY MINIMUM	1.1	.55	.10
ANNUAL RUNOFF (AC-FT)	2300	1230	1720
10 PERCENT EXCEEDS	6.6	2.4	5.3
50 PERCENT EXCEEDS	2.3	1.7	1.7
90 PERCENT EXCEEDS	1.2	.77	.62

e Estimated